

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled, the specification of which:

☐ is attached hereto.

☒ was filed on September 17, 1999 as Application Serial No. 09/398,610 and was amended on

☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

<u>U.S. Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
60/101,083	September 18, 1998	Converted

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

P. Louis Myers, Reg. No. 35,965
Timothy A. French, Reg. No. 30,175

Address all telephone calls to Louis Myers at telephone number 617/542-5070.

Address all correspondence to Louis Myers at:

FISH & RICHARDSON P.C.
225 Franklin Street
Boston, MA 02110-2804

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Combined Declaration and Power of Attorney

Page 2 of 2 Pages

Full Name of Inventor: Michael D. Edge

Inventor's Signature: Michael David Edge Date: 16th March 2000
Residence Address: Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG, United Kingdom
Citizenship: United Kingdom
Post Office Address: Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG, United Kingdom

Full Name of Inventor: Dan Pollock

Inventor's Signature: _____ Date: _____
Residence Address: 4 Redgate Drive, Medway, MA 02053
Citizenship: United States of America
Post Office Address: 4 Redgate Drive, Medway, MA 02053

Full Name of Inventor: Yann Echelard

Inventor's Signature: _____ Date: _____
Residence Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007
Citizenship: Canada
Post Office Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007

Full Name of Inventor: Harry M. Meade

Inventor's Signature: _____ Date: _____
Residence Address: 62 Grasmere Street, Newton, MA 02158
Citizenship: United States of America
Post Office Address: 62 Grasmere Street, Newton, MA 02158

Full Name of Inventor: Susanna M. Rybak

Inventor's Signature: _____ Date: _____
Residence Address: 7411B Round Hill Road, Frederick, MD 21702
Citizenship: United States of America
Post Office Address: 7411B Round Hill Road, Frederick, MD 21702

Combined Declaration and Power of Attorney

Page 2 of 2 Pages

Full Name of Inventor: Michael D. Edge

Inventor's Signature: _____ Date: _____
Residence Address: Mereside, Alderley Park, Macclesfield, Cheshire SK 10 4TG, UK
Citizenship: United Kingdom
Post Office Address: Mereside, Alderley Park, Macclesfield, Cheshire SK 10 4TG, UK

Full Name of Inventor: Dan Pollock

Inventor's Signature: Dan Pollock Date: 1/5/00
Residence Address: 4 Redgate Drive, Medway, MA 02053
Citizenship: United States of America
Post Office Address: 4 Redgate Drive, Medway, MA 02053

Full Name of Inventor: Yann Echelard

Inventor's Signature: [Signature] Date: 12/13/99
Residence Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007
Citizenship: Canada
Post Office Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007

Full Name of Inventor: Harry M. Meade

Inventor's Signature: Harry M. Meade Date: 1/6/00
Residence Address: 62 Grasmere Street, Newton, MA 02158
Citizenship: United States of America
Post Office Address: 62 Grasmere Street, Newton, MA 02158

Full Name of Inventor: Susanna M. Rybak

Inventor's Signature: _____ Date: _____
Residence Address: 7411B Round Hill Road, Frederick, MD 21702
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Post Office Address: 7411B Round Hill Road, Frederick, MD 21702

Combined Declaration and Power of Attorney

Page 2 of 2 Pages

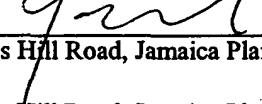
Full Name of Inventor: Michael D. Edge

Inventor's Signature: _____ Date: _____
Residence Address: Mereside, Alderley Park, Macclesfield, Cheshire SK 10 4TG, UK
Citizenship: United Kingdom
Post Office Address: Mereside, Alderley Park, Macclesfield, Cheshire SK 10 4TG, UK

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Post Office Address: 4 Redgate Drive, Medway, MA 02053


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Residence Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007
Citizenship: Canada
Post Office Address: 248 Moss Hill Road, Jamaica Plain, MA 02130-3007

Full Name of Inventor: Harry M. Meade

Inventor's Signature: _____ Date: _____
Residence Address: 62 Grasmere Street, Newton, MA 02158
Citizenship: United States of America
Post Office Address: 62 Grasmere Street, Newton, MA 02158

Full Name of Inventor: Susanna M. Rybak

Inventor's Signature:  Date: 1/18/00
Residence Address: 7411B Round Hill Road, Frederick, MD 21702
Citizenship: United States of America
Post Office Address: 7411B Round Hill Road, Frederick, MD 21702



UNITED STATES
PATENT AND
TRADEMARK OFFICE

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APRIL 17, 2003

FISH & RICHARDSON P.C.
LOUIS MYERS
2255 FRANKLIN STREET
BOSTON, MA 02110-2804

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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2002

REEL/FRAME: 013575/0931
NUMBER OF PAGES: 4

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE ASSIGNEE FILED ON 02/12/02. RECORDED ON REEL 012624 FRAME 0041. ASSIGNOR HEREBY CONFIRMS THE ENTIRE INTEREST.

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 07/24/2002

ASSIGNEE:

ASTRAZENECA UK LIMITED
15 STANHOPE GATE
LONDON W1Y 6LN, UNITED KINGDOM

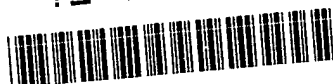
SERIAL NUMBER: 09396610
PATENT NUMBER:

FILING DATE: 09/15/1999
ISSUE DATE:

DOROTHY RILEY, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

12-18-2002

Substitute Form PTO-1595
 Attorney Docket No.: 10275-137001
 Client's Ref. No.: GTC-42



102314488

SHEET

C

Commissioner for Patents: Please record the attached original document(s) or copy(ies).				
1. Name of conveying party(ies): Michael D. Edge 12-11-02 Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): AstraZeneca UK Limited 15 Stanhope Gate London W1Y 6LN United Kingdom Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Request to Correct Notice of Recordation of Assignment Document Execution Date: 7/24/02				
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/398,610 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.			
DO NOT USE THIS SPACE				
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"> Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing </td> <td style="width: 40%; text-align: center;"> Signature </td> <td style="width: 30%; text-align: center;"> 12/06/02 Date </td> </tr> </table>		Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing	 Signature	12/06/02 Date
Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing	 Signature	12/06/02 Date		
Total number of pages including coversheet, attachments and document: 3				

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12/17/2002 DAYRME 00000208 09398610

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Cassandra Beepot
 Signature

Cassandra Beepot
 Typed Name of Person Signing Certificate

03/06/2002

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Attorney Docket No.: 10275-137001

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MRD
2-12-02 RECC

T

Commissioner for Pat nts: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Michael D. Edge Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): AstraZeneca Limited 15 Stanhope Gate London W1Y 6LN United Kingdom Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 03/16/2000	MRD 2-12-02
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/398,610 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing	<i>Laurie Lawrence</i> Signature 1/17/02 Date
Total number of pages including coversheet, attachments and document: 3	

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03/05/2002 6TDM11 00000210 09398610

01 FC:581

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1/17/02
Date of Deposit*Terri L Knox*
SignatureTerri L Knox
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, Michael D. Edge, of Macclesfield, Cheshire, United Kingdom, hereby assign to AstraZeneca UK Limited, a Great Britain corporation having a place of business at 15 Stanhope Gate, London W1Y 6LN, United Kingdom, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at CHESTER, U.K.,
this 24th day of JULY, 2002
Michael D. Edge L.S.
Michael D. Edge

State of UNITED KINGDOM :
: ss.
County of CHESTER :

Before me this 24th day of July, 2002, personally appeared
Michael D. Edge, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Robin Galbraith Moore

Notary Public

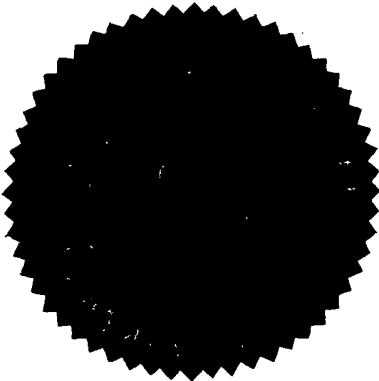
My Commission Expires: at death

ROBIN GALBRAITH MOORE

NOTARY PUBLIC

Grosvenor Court, Chester

CH1 1HG



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael D. Edge et al. Art Unit : 1632
Serial No. : 09/398,610 Examiner : A. Beckerleg
Filed : September 17, 1999
Title : TRANSGENICALLY PRODUCED FUSION PROTEINS

U.S. Patent and Trademark Office
Assignment Division
Box Assignments—CG-4
1213 Jefferson Davis Highway
Suite 320
Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Applicants request that the assignee's name be corrected on the Notice of Recordation of Assignment Document for the above case. The assignee's name was misidentified on the originally filed Recordation Form Cover Sheet and should read --**AstraZeneca UK Limited**--. A copy of the Notice of Recordation of Assignment Document showing the desired change in red ink is attached for your convenience. Also included is a new Recordation Form Cover Sheet and Assignment indicating the correct assignee name.

As the mistake was made by us, enclosed is our check for the \$40.00 fee. Please apply any charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Date: 12/6/02

Laurie Lawrence
Laurie Butler Lawrence
Reg. No. 46,593

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
(617) 542-5070 telephone
(617) 542-8906 facsimile

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December 6, 2002
Date of Deposit

Cassandra Beepot
Signature

Cassandra Beepot
Typed or Printed Name of Person Signing Certificate



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APRIL 25, 2002

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Arlington, VA 22202-3513
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FISH & RICHARDSON P.C.
LOUIS MYERS
225 FRANKLIN STREET
BOSTON, MA 02110-2804



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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0041
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 03/16/2000

ASSIGNEE: UK

ASTRAZENECA LIMITED
15 STANHOPE GATE
LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09398610
PATENT NUMBER:

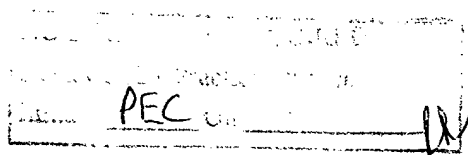
FILING DATE: 09/17/1999
ISSUE DATE:

LAZENA MARTIN, EXAMINER
ASSIGNMENT DIVISION
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APRIL 25, 2002

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BOSTON, MA 02110-2804



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UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0047
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RYBAK, SUSANNA M.

DOC DATE: 04/06/2000

ASSIGNEE:

UNITED STATES OF AMERICA, AS
REPRESENTED BY THE SECRETARY OF
HEALTH AND HUMAN SERVICES
OFFICE OF TECHNOLOGY TRANSFER
6011 EXECUTIVE BLVD., SUITE 325
ROCKVILLE, MARYLAND 20852-3804

SERIAL NUMBER: 09398610
PATENT NUMBER:

FILING DATE: 09/17/1999
ISSUE DATE:

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SAUNDRA BALLENGER, EXAMINER
ASSIGNMENT DIVISION
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03-06-2002

Substitute Form PTO-1595
Attorney Docket No.: 10275-137001

RECOI



102003322

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Dr. Susanna M. Rybak Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): United States of America, as represented by The Secretary of Health and Human Services Office of Technology Transfer Suite 325 6011 Executive Blvd. Rockville, MD 20852-3804 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/06/2000	4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/398,610 B. Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing Signature Date 1/17/02 Total number of pages including coversheet, attachments and document: 3	

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03/05/2002 6TON11 00000211 09398610

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Date of Deposit

Signature

Typed Name of Person Signing Certificate

1/17/02

Jeri L. Knox

Terri L. Knox

ASSIGNMENT

For valuable consideration, I, Susanna M. Rybak, of, Frederick, MD, hereby assign to the government of the United States of America as represented by the Secretary of the Department of Health and Human Services, (hereinafter, THE GOVERNMENT) and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at NCI / FCRDC,
this 6 day of April, 2000
Susanna M. Rybak L.S.

State of Maryland :
: ss.
County of Frederick :

Before me this 6 day of April, 2000, personally appeared
Susanna M. Rybak, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that she executed the same as her free act and deed for the
purposes therein contained.

Ann E. Rogers
Notary Public
My Commission Expires: 04/01/01

[Notary's Seal Here]

20015173.doc

10275-137001

JANUARY 31, 2002

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RECORDATION DATE: 01/17/2002

REEL/FRAME: 012349/0127
NUMBER OF PAGES: 5

BRIEF: DOCUMENT RE-RECORDED TO CORRECT ERRORS CONTAINED IN PROPERTY NUMBER 09398620 DOCUMENT PREVIOUSLY RECORDED ON REEL 010847 FRAME 0196.

ASSIGNOR:
POLLOCK, DAN

DOC DATE: 04/11/2001

ASSIGNOR:
ECHELAND, YANN

DOC DATE: 04/06/2001

ASSIGNOR:
MEADE, HARRY M.

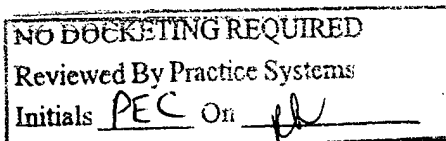
DOC DATE: **RECEIVED**

ASSIGNEE:
GENZYME TRANSGENICS CORPORATION
175 CROSSING BOULEVARD
POST OFFICE BOX 9322
FRAMINGHAM, MASSACHUSETTS
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FISH & RICHARDSON, P.C.
BOSTON OFFICE

SERIAL NUMBER: 09398610
PATENT NUMBER:

FILING DATE: 09/17/1999
ISSUE DATE:



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1. Name of conveying party(ies):

Dan Pollock, Yann Echelard and Harry M. Meade

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☒ Other: Corrective of 010847/0196, Serial 09/398,620

Execution Date: 04/06/00; 04/11/00

2. Name and address of receiving party(ies):

Genzyme Transgenics Corporation
175 Crossing Boulevard
Post Office Box 9322
Framingham, MA 01701-9322

Additional names/addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s):

09/398,610

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

LOUIS MYERS
Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR \$3.41): \$40

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Substitute Form PTO-1595
Attorney Docket No.: 10275-137001

5-31-00

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1. Name of conveying party(ies): Dan Pollock, Yann Echelard and Harry M. Meade Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Genzyme Transgenics, Inc. Five Mountain Road Framingham, MA 01701-9322 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/08/00 and 04/11/00	
4. Application number(s) or patent number(s): 09/398,620 If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: P. LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additionally charges, or any credits, to our Deposit Account No. 06-1050.
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9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Lauranne Butler Reg. No. P46,593 Name of Person Signing <i>Lauranne Butler</i> Signature 5/26/00 Date Total number of pages including coversheet, attachments and document: 4	

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

May 26, 2000
Date of Deposit
Laura Labrie
Signature
Laura Labrie
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, we, Dan Pollock of Medway, MA; Yann Echelard of Jamaica Plain, MA; and Harry M. Meade of Newton, MA, hereby assign to Genzyme Transgenics, Inc., a Massachusetts corporation having a place of business at: Five Mountain Road, Framingham, MA 01701-9322, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled **TRANSGENICALLY PRODUCED FUSION PROTEINS**, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at One Mountain Road, Framingham
this 11 day of April, 2000
Dan Pollock L.S.
Dan Pollock

State of Massachusetts:
: ss.
County of Middlesex:

Before me this 11 day of April, 2000, personally appeared
Dan Pollock, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

USA Marie Seavey
Notary Public

My Commission Expires:

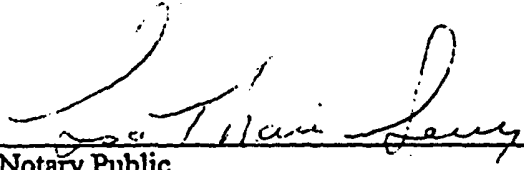
USA MARIE SEAVEY
Notary Public
My Comm. Expires Dec. 13, 2002

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at 175 Crossing Blvd, Framingham Ma
this 6 day of April, 2000
Yann Echelard L.S.
Yann Echelard

State of Massachusetts:
: ss.
County of Middlesex:

Before me this 6 day of April, 2000, personally appeared Yann Echelard, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



Notary Public

My Commission Expires:

USA MARIE SEAVEY
Notary Public

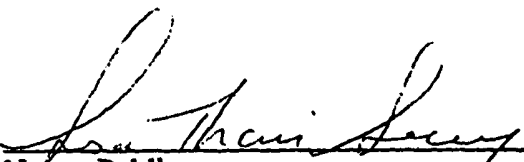
My Comm. Expires Dec. 13, 2002

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at One Monument Road Framingham
this 11 day of April, 2000
Harry M. Meade L.S.
Harry M. Meade.

State of Massachusetts :
: ss.
County of Dorchester :

Before me this 11 day of April, 2000, personally appeared Harry M. Meade, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



Notary Public

My Commission Expires:

USA MARIE SEAVEY
Notary Public

My Comm. Expires Dec. 13, 2002

[Notary's Seal Here] +